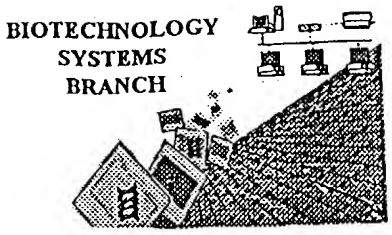

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/896,095A
Source: IFW0
Date Processed by STIC: 12/6/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** 09/896,095A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFW16

RAW SEQUENCE LISTING DATE: 12/06/2004
PATENT APPLICATION: US/09/896,095A TIME: 14:23:14

Input Set : D:\D0617.70002US09 seq.txt
Output Set: N:\CRF4\12062004\I896095A.raw

```
     3 <110> APPLICANT: Ladner, Robert Charles
     4       Guterman, Sonia Kosow
     5       Roberts, Bruce Lindsay
     6       Markland, William
     7       Arthur, Ley Charles
     8       Rachel, Kent Baribault
    10 <120> TITLE OF INVENTION: DIRECTED EVOLUTION OF NOVEL BINDING PROTEINS
    12 <130> FILE REFERENCE: D0617.70002US09
    14 <140> CURRENT APPLICATION NUMBER: 09/896,095A
    15 <141> CURRENT FILING DATE: 2001-06-29
    17 <150> PRIOR APPLICATION NUMBER: 08/993,776
    18 <151> PRIOR FILING DATE: 1997-12-18
    20 <150> PRIOR APPLICATION NUMBER: 08/415,922
    21 <151> PRIOR FILING DATE: 1995-04-03
    23 <150> PRIOR APPLICATION NUMBER: 08/009,319
    24 <151> PRIOR FILING DATE: 1993-01-26
    26 <150> PRIOR APPLICATION NUMBER: 07/664,989
    27 <151> PRIOR FILING DATE: 1991-03-01
    29 <150> PRIOR APPLICATION NUMBER: 07/487,063
    30 <151> PRIOR FILING DATE: 1990-03-02
    32 <150> PRIOR APPLICATION NUMBER: 07/240,160
    33 <151> PRIOR FILING DATE: 1988-09-02
E--> 35 <160> NUMBER OF SEQ ID NOS: 261
    37 <170> SOFTWARE: PatentIn version 3.3
```

pp 1-8

Does Not Comply
Corrected Diskette Needed

? 305? (see below)

ERRORED SEQUENCES

```
E--> 1444 <210> SEQ ID NO: 84
E--> 5271 <210> SEQ ID NO: 225
E--> 6120 <210> SEQ ID NO: 271
    6854 <210> SEQ ID NO: 305
    6855 <211> LENGTH: 5
    6856 <212> TYPE: PRT
    6857 <213> ORGANISM: Artificial sequence
    6859 <220> FEATURE:
    6860 <223> OTHER INFORMATION: synthetic peptide
    6862 <400> SEQUENCE: 305
    6864 Met Ala Ile Ser Pro
    6865 1               5
E--> 6866 - 1 -
E--> 6869 - 112 -
```

← Sequence 45 through 83 missing (see p. 2)
← Sequence 224 missing
← Sequence 290 missing
↑ last sequence in submitted file

delete

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/06/2004
PATENT APPLICATION: **US/09/896,095A** TIME: 14:23:16

Input Set : **D:\D0617.70002US09 seq.txt**
Output Set: **N:\CRF4\12062004\I896095A.raw**

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:125; Line(s) 2250,2256,2267,2273,2284,2290,2301,2307,2318,2324,2335
Seq#:125; Line(s) 2341,2352,2358
Seq#:128; Line(s) 2460,2466,2477,2483,2494,2500,2511,2517,2528,2534
Seq#:204; Line(s) 4255,4261,4272,4278,4289,4295,4306,4312,4323,4329,4340
Seq#:204; Line(s) 4346

Skipped Sequences(NEW RULES): missing sequences
Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

Seq#:45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,224,270

<210> 89
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

? This is not a nucleotide sequence.

<220>
<221> MISC_FEATURE
<222> (1)..(2)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (7)..(8)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (10)..(11)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (13)..(14)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (16)..(17)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (22)..(23)
<223> where n can be any nucleotide

<400> 89

Please correct this type of error in subsequent sequences.

<210> 107
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic peptide

another erroneous designation

<210> 125
<211> 76
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

? This is a nucleotide sequence.

<220>
<221> misc_feature
<222> (21)..(21)
<223> where nwhere Xaa can be any naturally occurring amino acid with the following probabilities:
(.26 T, .18 C, .26 A, and .30 G)

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

<210> 187
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic peptide

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> where x is a stop encoded by TAA

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> where x is a stop encoded by TAG

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> where x is a stop encoded by TGA

Xaa cannot represent a stop codon. It can only represent a single amino acid.

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

09/896,095A7

<210> 260
<211> 1302
<212> DNA
<213> M13

invalid <213> response - see item 10 on Error Summary Sheet

<400> 260

09/896,095A 8

<210> 285
<211> 94
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> misc_feature
<222> (18)..(18)
<223> where n has an equal probability of bein C or A

being?

VERIFICATION SUMMARY DATE: 12/06/2004
PATENT APPLICATION: **US/09/896,095A** TIME: 14:23:16

Input Set : **D:\D0617.70002US09 seq.txt**
Output Set: **N:\CRF4\12062004\I896095A.raw**

L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:157 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:162 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:167 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:177 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:187 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:16
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:16
L:996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:16
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:16
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:16
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0

VERIFICATION SUMMARY DATE: 12/06/2004
PATENT APPLICATION: **US/09/896,095A** TIME: 14:23:16

Input Set : **D:\D0617.70002US09 seq.txt**
Output Set: **N:\CRF4\12062004\I896095A.raw**

```
L:1262 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16
L:1297 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1301 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:16
L:1336 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1340 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:16
L:1360 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1379 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1404 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1444 M:216 E:  (34) Seq.#s missing, SEQ ID NOS: 45 thru 83
L:1565 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1848 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:2133 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:2233 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:2367 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:2445 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:2543 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0
L:2677 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:3843 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:3923 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:187 after pos.:0
L:4231 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0
L:4235 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:16
L:4239 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:32
L:4355 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0
L:4357 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:60
L:4410 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0
L:4412 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:60
L:4515 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0
L:4519 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:16
L:4523 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:32
L:4645 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
L:4647 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:60
L:4649 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:120
L:4679 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0
L:4791 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0
L:4795 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:16
L:4909 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0
L:4911 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:60
L:4977 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0
L:5144 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:128
L:5237 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:128
L:5271 M:214 E:  (33) Seq.# missing, SEQ ID NO:224
L:5948 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:64
L:6086 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:268 after pos.:128
L:6120 M:214 E:  (33) Seq.# missing, SEQ ID NO:270
L:6211 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:64
L:6530 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0
L:6532 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:60
L:6592 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:0
L:6612 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:0
```

VERIFICATION SUMMARY DATE: 12/06/2004
PATENT APPLICATION: **US/09/896,095A** TIME: 14:23:16

Input Set : **D:\D0617.70002US09 seq.txt**
Output Set: **N:\CRF4\12062004\I896095A.raw**

L:6630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:0
L:6866 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:305
L:6869 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:305
L:35 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (261) Counted (264)